Release notes for ENDF/B Development photoat-024_Cr_000 evaluation



October 13, 2016

- checkr Warnings:
 - 1. A previous error halted parsing of the current section $MAT=2400,\ MF=1,\ MT=451\ (1)$: Parsing stopped

ERROR(S) FOUND IN MAT=2400, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 153 TO 175

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT=2400, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=2400, MF= 1, MT=451
MOD = 3 OUT OF RANGE 0 - 1 RECORD NUMBER 153

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=2400, MF=23, MT=501 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=501
SECTION 23/501 NOT IN DIRECTORY RECORD NUMBER

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=2400, MF=23, MT=502 (0): Directory (b)

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ERROR(S) FOUND IN MAT=2400, MF=23, MT=502
SECTION 23/502 NOT IN DIRECTORY RECORD NUMBER 822

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=2400, MF=23, MT=504 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=504
SECTION 23/504 NOT IN DIRECTORY RECORD NUMBER 1097

5. Missing a section in directory so your directory is messed up. This error will break everything else MAT=2400, MF=23, MT=515 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=515
SECTION 23/515 NOT IN DIRECTORY RECORD NUMBER 113

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT=2400, MF=23, MT=516 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=516
SECTION 23/516 NOT IN DIRECTORY RECORD NUMBER 1171

7. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=2400,\ MF=23,\ MT=517\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=517 SECTION 23/517 NOT IN DIRECTORY

RECORD NUMBER 1221

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 2400, MF = 23, MT = 522 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=522 SECTION 23/522 NOT IN DIRECTORY

RECORD NUMBER 1259

9. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 2400, MF = 23, MT = 534 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=534 SECTION 23/534 NOT IN DIRECTORY

RECORD NUMBER 1560

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 2400, MF = 23, MT = 535 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=535 SECTION 23/535 NOT IN DIRECTORY

RECORD NUMBER 1583

11. Missing a section in directory so your directory is messed up. This error will break everything else MAT=2400, MF=23, MT=536 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=536 SECTION 23/536 NOT IN DIRECTORY

RECORD NUMBER 1612

12. Missing a section in directory so your directory is messed up. This error will break everything else MAT=2400, MF=23, MT=537 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=537 SECTION 23/537 NOT IN DIRECTORY

RECORD NUMBER 1648

13. Missing a section in directory so your directory is messed up. This error will break everything else MAT=2400, MF=23, MT=538 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=538 SECTION 23/538 NOT IN DIRECTORY

RECORD NUMBER 1684

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=2400, MF=23, MT=539 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=539 SECTION 23/539 NOT IN DIRECTORY

RECORD NUMBER 1725

15. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=2400,\ MF=23,\ MT=540\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=540 SECTION 23/540 NOT IN DIRECTORY

RECORD NUMBER 1773

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 2400, MF = 23, MT = 541 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=541 SECTION 23/541 NOT IN DIRECTORY

RECORD NUMBER 1826

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 2400, MF = 23, MT = 542 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=542 SECTION 23/542 NOT IN DIRECTORY

RECORD NUMBER 1879

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 2400, MF = 23, MT = 543 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=23, MT=543 SECTION 23/543 NOT IN DIRECTORY

RECORD NUMBER 1929

19. Missing a section in directory so your directory is messed up. This error will break everything else

 $\dot{MAT} = 2400, MF = 27, MT = 502 (0)$: Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=27, MT=502 SECTION 27/502 NOT IN DIRECTORY

RECORD NUMBER 2009

20. Missing a section in directory so your directory is messed up. This error will break everything else MAT=2400, MF=27, MT=504 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=27, MT=504 SECTION 27/504 NOT IN DIRECTORY

RECORD NUMBER 2064

21. Missing a section in directory so your directory is messed up. This error will break everything else MAT=2400, MF=27, MT=505 (0): Directory (b)

27, 111 000 (0), 20, 000

ERROR(S) FOUND IN MAT=2400, MF=27, MT=505 SECTION 27/505 NOT IN DIRECTORY

RECORD NUMBER 2120

22. Missing a section in directory so your directory is messed up. This error will break everything else MAT=2400, MF=27, MT=506 (0): Directory (b)

ERROR(S) FOUND IN MAT=2400, MF=27, MT=506 SECTION 27/506 NOT IN DIRECTORY

RECORD NUMBER 2242

- fudge-4.0 Warnings:
 - 1. generic warning message reaction label 0: $Cr + gamma \ [coherent] \ / \ Product: gamma \ (Error \# 0): Warning$

WARNING: coherentScattering is not a valid distribution component for 2-body reaction

2. FIXME: Generic fudge unimplemented message reaction label 0: Cr + gamma [coherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for pointwise type data

3. generic warning message reaction label 1: Cr + gamma [incoherent] / Product: gamma (Error # 0): Warning

WARNING: incoherentScattering is not a valid distribution component for 2-body reaction

4. FIXME: Generic fudge unimplemented message reaction label 1: Cr + gamma [incoherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for piecewise type data

5. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 14: total (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 100.00%

6. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 16: photoelectric absorption (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 78.55%

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: Cr + gamma [coherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

2. 2-body reaction not in center-of-mass frame reaction label 0: Cr + gamma [coherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

3. Calculated and tabulated thresholds don't agree reaction label 1: Cr + gamma [incoherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

4. 2-body reaction not in center-of-mass frame reaction label 1: Cr + gamma [incoherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

- 5. Energy range of data set does not match cross section range reaction label 1: Cr + gamma [incoherent] / Product: gamma / Distribution incoherentScattering piecewise: (Error # 0): Domain mismatch (a)
 - WARNING: Domain doesn't match the cross section domain: (0.0 -> 1000000000.0) vs (1.0 -> 1e+11)
- - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2.044e6 eV!
- 7. Calculated and tabulated thresholds don't agree reaction label 3: e- + e+ + Cr [nuclear field] / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!
- 8. Calculated and tabulated thresholds don't agree reaction label 4: e- + Cr1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5957.6 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 5: e- + Cr2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 687.34 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 6: e- + Cr2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 589.74 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 7: e- + Cr2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 580.809999999999 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 8: e- + Cr3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 79.19 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 9: e- + Cr3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 51.25 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 10: e- + Cr3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 50.2 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 11: e- + Cr3d3/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.46 eV!

16. Calculated and tabulated thresholds don't agree reaction label 12: e- + Cr3d5/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 6.37 eV!

17. Calculated and tabulated thresholds don't agree reaction label 13: e- + Cr4s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.96 eV!

18. Calculated and tabulated thresholds don't agree summedReaction label 14: total / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

19. Calculated and tabulated thresholds don't agree summedReaction label 15: pair product / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!

20. Calculated and tabulated thresholds don't agree $summedReaction\ label\ 16:\ photoelectric\ absorption\ /\ Cross\ section:\ (Error\ \#\ 0):\ Threshold\ mismatch$

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.96 eV!